

Fig. 1

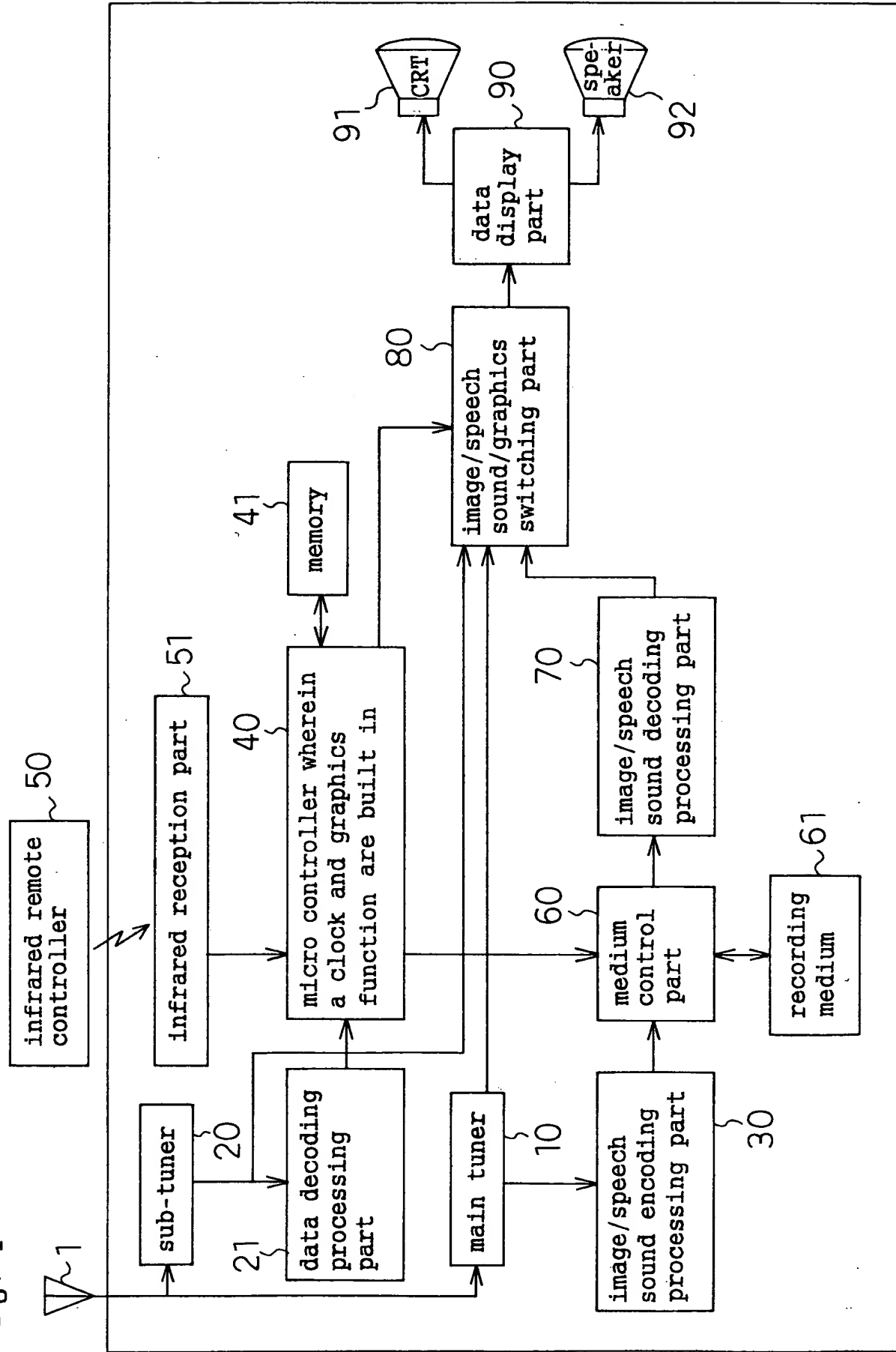


Fig. 2

date	program title	broadcast date and time	genre	program summary	television personalities	series information (broadcast mode)
09	News Seven (August 8)	1999/08/08/07:00 08:00	news	_____	Taro Yamamoto	News Seven (continuous every day/ all year round)
	;					
	Total Solar Eclipse (first)	1999/08/12/21:00 23:00	documentary	_____	Hanako Yamashita Shotaro Kato	Total Solar Eclipse (continuous every day/ 1 of 2)
	Total Solar Eclipse (second)	1999/08/13/21:00 23:00	documentary	_____	Hanako Yamashita Shotaro Kato	Total Solar Eclipse (continuous every day/ 2 of 2)
10	;					
	Holiday in Los Angeles (Part 25 Secret)	1999/08/09/21:00 23:00	movie	Story of Tragic Love Set in Los Angeles	John Long Catherine Ross	Holiday in Los Angeles (continuous every week/ 25 of 50)
	Holiday in Los Angeles (Part 26 Informer's Report)	1999/08/16/21:00 23:00	movie	Story of Tragic Love Set in Los Angeles	John Long Catherine Ross	Holiday in Los Angeles (continuous every week/ 26 of 50)
08	;					
	Professional Baseball Game A vs. B (eighth game)	1999/08/10/18:00 21:00	sports	_____	_____	Professional Baseball Game A vs. B (broadcast interval not determined/ 8 of 12)
06	It Will be Sunny Tomorrow (sixth)	1999/07/28/20:00 21:00	drama	_____	_____	It Will be Sunny Tomorrow (continuous every week/ 6 of 12)
	It Will be Sunny Tomorrow (seventh)	1999/08/04/20:00 21:00	drama	_____	_____	It Will be Sunny Tomorrow (continuous every week/ 7 of 12)
	It Will be Sunny Tomorrow (eighth)	1999/08/11/20:00 21:00	drama	_____	_____	It Will be Sunny Tomorrow (continuous every week/ 8 of 12)
	;					

present time 1999/08/12 20:30 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording method	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	recorded (1 hour) 1999/0811/07:00-1999/0812/07:00	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	recorded (2 hour) 1999/0809/21:00-1999/0816/21:00	4 hours in total
08	Professional Baseball Game A vs. B	—	erasable	A	exists (***)	recorded (3 hour) 1999/0810/18:00	3 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	recorded (1 hour) 1999/0728/20:00-1999/0804/20:00-1999/0811/20:00	3 hours in total

present time 1999/08/12 20:30 maximum recording time  
112 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording conditions	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	<div>recorded (1 hour) 1999/0811/07:00</div> <div>recorded (1 hour) 1999/0812/07:00</div>	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	<div>recorded (2 hour) 1999/0809/21:00</div> <div>set for recording (2 hours) 1999/0816/21:00</div>	4 hours in total
08	Professional Baseball Game A vs. B	—	erasable	A	exists (***)	<div>recorded (3 hour) 1999/0810/18:00</div>	3 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	<div>recorded (1 hour) 1999/0728/20:00</div> <div>recorded (1 hour) 1999/0804/20:00</div> <div>recorded (1 hour) 1999/0811/20:00</div>	3 hours in total
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	nil	<div>set for recording (2 hours) 1999/0812/21:00</div> <div>set for recording (2 hours) 1999/0813/21:00</div>	4 hours in total

present time 1999/08/12 20:41 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording method	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	<div>recorded (1 hour) 1999/0811/07:00</div> <div><del>recorded (1 hour) 1999/0812/07:00</del></div>	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	<div>recorded (2 hour) 1999/0809/21:00</div> <div>set for recording (2 hours) 1999/0816/21:00</div>	4 hours in total
08	Professional Baseball Game A vs. B	—	erasable	A	exists (***)	<div><del>recorded (3 hour) 1999/0810/18:00</del></div>	3 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	<div>recorded (1 hour) 1999/0728/20:00</div> <div>recorded (1 hour) 1999/0804/20:00</div> <div>recorded (1 hour) 1999/0811/20:00</div>	3 hours in total
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	nil	<div>set for recording (2 hours) 1999/0812/21:00</div> <div>set for recording (2 hours) 1999/0813/21:00</div>	4 hours in total

Fig. 6

present time 1999/08/13 21:00 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording priority	viewer limitation (password)	program recording condition (recording time)		total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	recorded (1 hour) 1999/0811/07:00	<del>recorded (1 hour) 1999/0812/02:00</del>	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	recorded (2 hour) 1999/0809/21:00	set for recording (2 hours) 1999/0816/21:00	4 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	recorded (1 hour) 1999/0728/20:00	recorded (1 hour) 1999/0804/20:00	3 hours in total
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	nil	recorded (2 hour) 1999/0812/21:00	recording (2 hours) 1999/0813/21:00	4 hours in total

Fig. 7

present time 1999/08/12 20:40 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

recording setter A password				C			
B							
channel	program title	program group recording conditions	program group erasure possibility conditions	program recording condition (recording time)			
12	News Seven	recording of newest program (1)	erasable	recorded (1 hour) 1999/08/12 07:00	recorded (1 hour) 1999/08/12 07:00		
08	Professional Baseball Game A vs. B	-----	erasable	<del>recorded (3 hour) 1999/08/10 08:00</del>	<del>recorded (3 hour) 1999/08/10 08:00</del>		
12	Total Solar Eclipse	recording of programs (all)	non-erasable	set for recording (2 hours) 1999/08/12 21:00	set for recording (2 hours) 1999/08/13 21:00		

Fig. 8

present time 1999/08/12 20:41 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

recording setter A password		C		B	
channel	program title	program group recording conditions	program group erasure possibility conditions	program recording condition (recording time)	
12	News Seven	recording of newest program (1)	erasable	recorded (1 hour) 1999/08/11/07:00	recorded (1 hour) 1999/08/12/07:00
08	Professional Baseball Game A vs. B	-----	erasable	<del>recorded (3 hour) 1999/08/10/18:00</del>	<del>set for recording (2 hours) 1999/08/13/21:00</del>
12	Total Solar Eclipse	recording of programs (all)	non-erasable	set for recording (2 hours) 1999/08/12/21:00	



Fig. 9

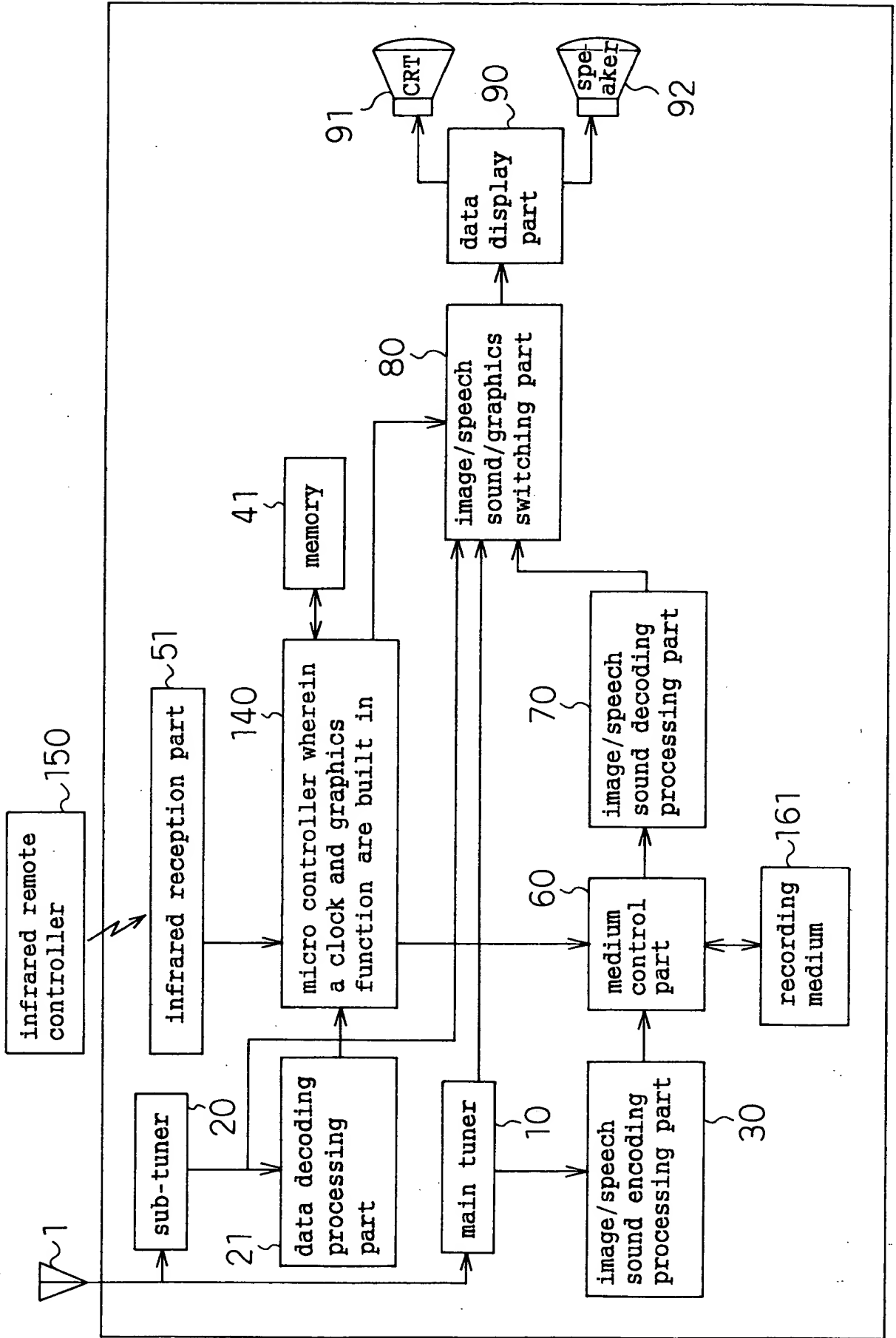


Fig. 10

present time 1997/04/09 10:00  
maximum recording capacity 8.5GB

recorded program		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
12ch	News ABC		1GB	97/04/01 18:01	1	erasable
2ch	Drama XYZ		1GB	97/04/01 19:00	1	non-erasable
6ch	Baseball Game ab vs. cd 01		2GB	97/03/18 18:00	1	erasable
6ch	Baseball Game ab vs. cd 02		2GB	97/03/19 18:00	0	erasable
12ch	English Conversation 3		0.5GB	97/03/18 06:00	5	erasable
12ch	News CDF 2		1GB	97/04/08 18:01	1	erasable
4ch	Drama XXX		1GB	97/04/08 19:00	0	erasable
capacity management		already recorded capacity 8.5GB vacant capacity 0GB re-writable capacity 7.5GB non-erasable capacity 1GB				

programs set for recording		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
6ch	Baseball Game ab vs. cd 12		3GB	97/04/09 18:00	0	non-erasable
capacity management		capacity for programs set for recording 3GB potential capacity for programs set for recording 4.5GB				

Fig. 11

present time 1997/04/09 10:10  
maximum recording capacity 8.5GB

recorded program		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
12ch	News ABC		1GB	97/04/01 18:01	1	erasable
2ch	Drama XYZ		1GB	97/04/01 19:00	1	erasable
6ch	Baseball Game ab vs. cd 01		2GB	97/03/18 18:00	1	erasable
6ch	Baseball Game ab vs. cd 02		2GB	97/03/19 18:00	0	erasable
12ch	English Conversation 3		0.5GB	97/03/18 06:00	5	non-erasable
12ch	News CDF 2		1GB	97/04/08 18:01	1	erasable
4ch	Drama XXX		1GB	97/04/08 19:00	0	erasable
capacity management		recorded capacity 8.5GB	vacant capacity 0GB			
		re-writable capacity 8GB	non-erasable capacity 0.5GB			

programs set for recording		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
6ch	Baseball Game ab vs. cd 12		3GB	97/04/09 18:00	0	non-erasable
6ch	Baseball Game ab vs. cd 13		1.5GB	97/04/12 18:00	0	erasable
capacity management		capacity for programs set for recording 4.5GB potential capacity for programs set for recording 3.5GB				

Fig. 12

present time 1997/04/09 10:00  
maximum recording capacity 8.5GB

program erasure priority		program title	program recording capacity	erasure priority	erasure plan (date and time)
program criterion	broadcast start date and time				
playback number					
playback once	97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/9 18:00)
	97/04/01 18:01	News ABC	1GB	second	erasure plan (4/9 18:00)
	97/04/01 19:00	Drama XYZ	1GB	non-erasable	
	97/04/08 18:01	News CDF	1GB	third	
playback twice or more	97/03/18 06:00	English Conversation 3	0.5GB	fourth	
no playback	97/03/19 18:00	Baseball Game ab vs. cd 02	2GB	fifth	
	97/04/08 19:00	Drama XXX	1GB	sixth	
set for recording	97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	

Fig. 13

present time 1997/04/09 10:10  
maximum recording capacity 8.5GB

program erasure priority		program title	program recording capacity	erasure priority	erasure plan (date and time)
program erasure criterion	broadcast start date and time				
playback number					
playback once	97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/9 18:00)
	97/04/01 18:01	News ABC	1GB	second	erasure plan (4/9 18:00)
	97/04/01 19:00	Drama XYZ	1GB	third	erasure plan (4/12 18:00)
	97/04/08 18:01	News CDF	1GB	fourth	erasure plan (4/12 18:00)
playback twice or more	97/03/18 06:00	English Conversation 3	0.5GB	non-erasable	
no playback	97/03/19 18:00	Baseball Game ab vs. cd 02	2GB	fifth	
	97/04/08 19:00	Drama XXX	1GB	sixth	
set for recording	97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	
	97/04/12 18:00	Baseball Game ab vs. cd 13	1.5GB	seventh	

Fig. 14

screen

```
present time 1997/04/09 10:00
```

manual erasing/setting of  
release of recording

broadcast start date and time	program title	program recording capacity	erasure priority	erasure plan (date and time)	
97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/9 18:00)	<input type="checkbox"/>
97/04/01 18:01	News ABC	1GB	second	erasure plan (4/9 18:00)	<input type="checkbox"/>
97/04/01 19:00	Drama XYZ	1GB	non-erasable		<input type="checkbox"/>
97/04/08 18:01	News CDF	1GB	third	erasure plan (4/12 18:00)	<input type="checkbox"/>
97/03/18 06:00	English Conversation 3	0.5GB	fourth	erasure plan (4/12 18:00)	<input type="checkbox"/>
97/03/19 18:00	Baseball Game ab vs. cd 0/2	2GB	fifth		<input type="checkbox"/>
97/04/08 19:00	Drama XXX	1GB	sixth		<input type="checkbox"/>
97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	set for recording	<input type="checkbox"/>
97/04/12 18:00	Baseball Game ab vs. cd 13	1.5GB	seventh	set for recording	<input type="checkbox"/>

**non-erasable**

}	re-writable	3.5GB	usage confirmed	usage planned

return

rele-  
ase

Fig. 15

screen

present time 1997/04/09 10:10

broadcast start date and time	program title	program recording capacity	erasure priority	erasure plan (date and time)	
97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/9 18:00)	<input type="checkbox"/>
97/04/01 18:01	News ABC	1GB	second	erasure plan (4/9 18:00)	<input type="checkbox"/>
97/04/01 19:00	Drama XYZ	1GB	third	erasure plan (4/12 18:00)	<input type="checkbox"/>
97/04/08 18:01	News CDF	1GB	fourth	erasure plan (4/12 18:00)	<input type="checkbox"/>
97/03/18 06:00	English Conversation 3	0.5GB	non-erasable		<input type="checkbox"/>
97/03/19 18:00	Baseball Game ab vs. cd 02	2GB	fifth		<input type="checkbox"/>
97/04/08 19:00	Drama XXX	1GB	sixth		<input type="checkbox"/>
97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	set for recording	<input type="checkbox"/>
97/04/12 18:00	Baseball Game ab vs. cd 13	1.5GB	seventh	set for recording	<input type="checkbox"/>

manual setting of release of erasing/recording

non-erasable

re-writable 3.5GB	usage confirmed	usage planned
-------------------	-----------------	---------------

return

release

screen

**non-erasable**

re-writable	3.5GB	usage confirmed	usage planned

usage  
planned



Fig. 17

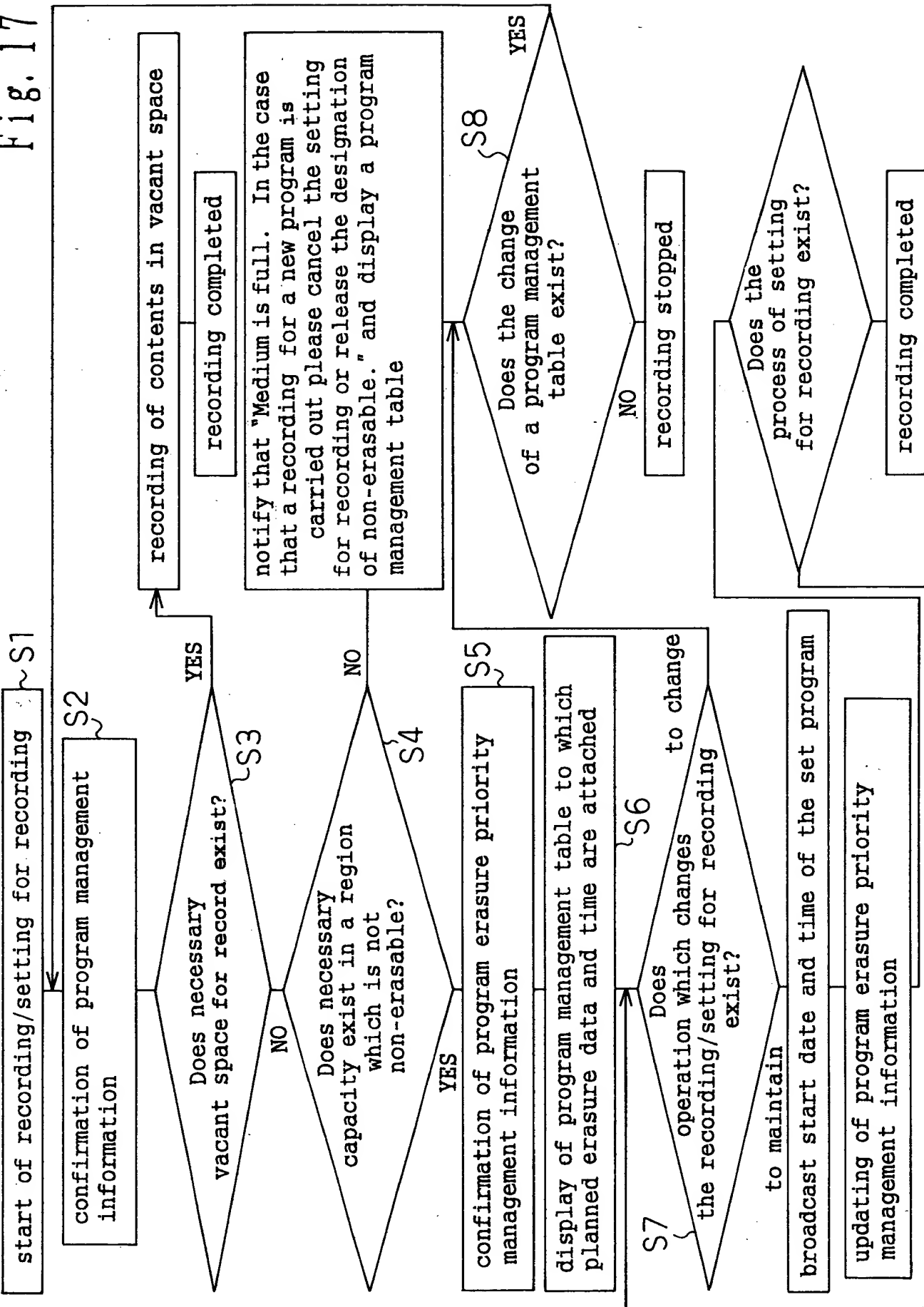


Fig. 18 PRIOR ART

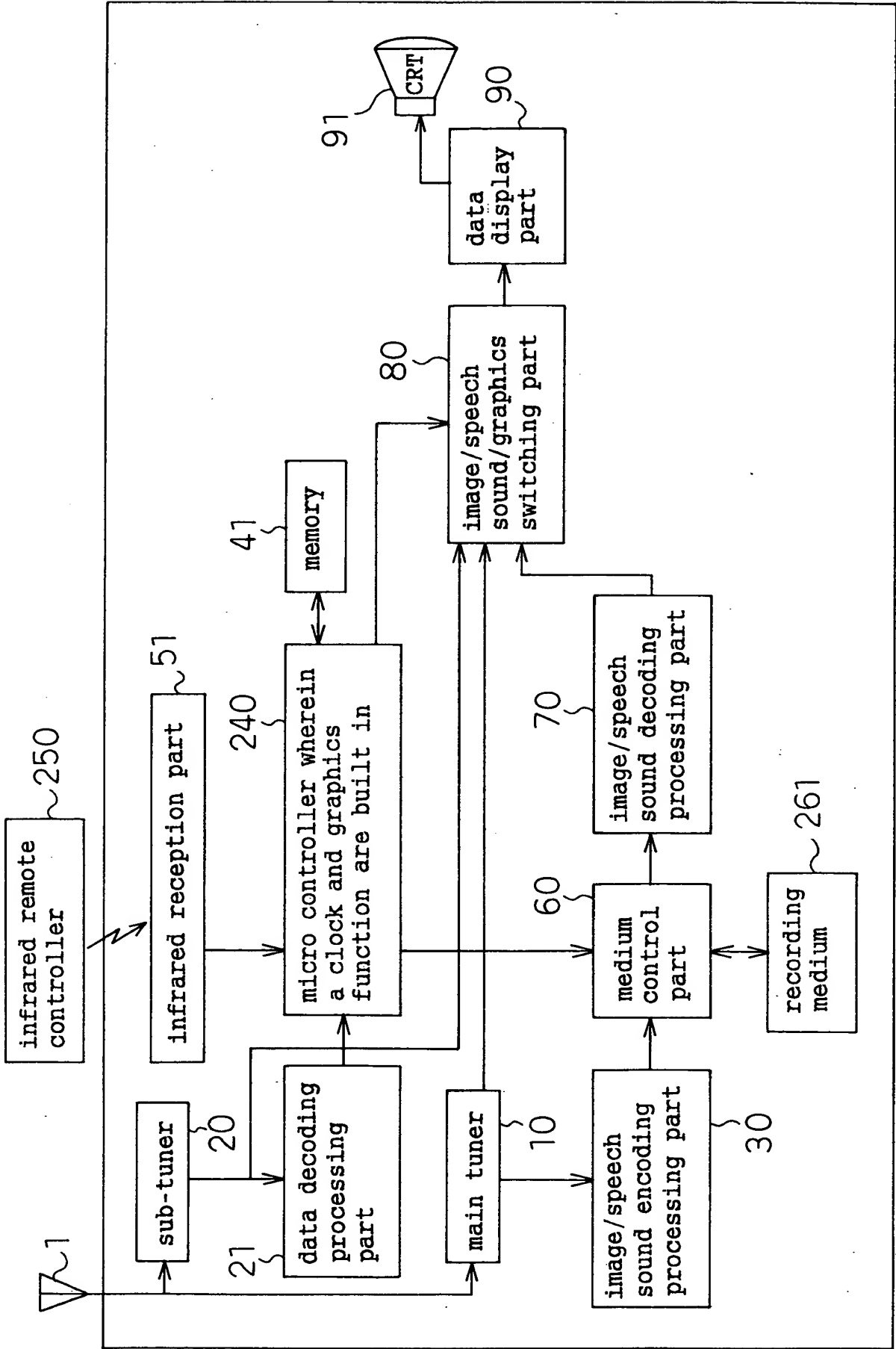


Fig. 19 PRIOR ART

present time 1999/08/12 20:30 maximum recording time  
12 hours / program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)	
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/0811/07:00	recorded (1 hour) 1999/0812/07:00
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/0809/21:00	set for recording (2 hours) 1999/0816/21:00
08	Professional Baseball Game A vs. B	_____	recorded (3 hour) 1999/0810/18:00	
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/0728/20:00	recorded (1 hour) 1999/0804/20:00

Fig. 20 PRIOR ART

present time 1999/08/12 20:30 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)		
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/0811/07:00	recorded (1 hour) 1999/0812/07:00	
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/0809/21:00	set for recording (2 hours) 1999/0816/21:00	
08	Professional Baseball Game A vs. B	—	recorded (3 hour) 1999/0810/18:00		
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/0728/20:00	recorded (1 hour) 1999/0804/20:00	recorded (1 hour) 1999/0811/20:00
12	Total Solar Eclipse	recording of programs (all)	set for recording (2 hours) 1999/0812/21:00	set for recording (2 hours) 1999/0813/21:00	

Fig. 21 PRIOR ART

present time 1999/08/12 21:00 maximum recording time  
12 hours program erasure priority criterion broadcast  
start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)		
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/0811/07:00	recorded (1 hour) 1999/0812/07:00	
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/0809/21:00	set for recording (2 hours) 1999/0816/21:00	
08	Professional Baseball Game A vs. B	_____	recorded (3 hour) 1999/0810/18:00		
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/0728/20:00	recorded (1 hour) 1999/0804/20:00	recorded (1 hour) 1999/0811/20:00
12	Total Solar Eclipse	recording of programs (all)	recording (2 hours) 1999/0812/21:00	set for recording (2 hours) 1999/0813/21:00	